BRUHATH BANGALORE MAHANAGARA PALIKE, DASARAHALLI ZONE

Office of the Executive Engineer, Dasarahalli Division

Schedule - B

NAME OF THE WORK: Drilling of new Borewells in Chikkasandra and surroundings area in ward no. 17, T.Dasarahalli Sub Division.

Indent No: BBMP/2024-25/OW/WORK_INDENT3855/CALL-2

Sl. No	Description of work	Unit	Qty	Sanctioned Rate	
				In Figures (Rs.)	In Words (Rs.)
1	Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) 50 mm nominal bore	Each	8.00	855.00	Rupees Eight Hundred Fifty Five Only
2	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m, and lift upto 1.5 m. including cost of all labour complete as per specifications	Cum	207.27	176.00	Rupees One Hundred Seventy Six Only
3	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to13:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 Volts as per IS-694:1990.3C x 6 sqmm	Rmtr	5376.00	245.00	Rupees Two Hundred Forty Five Only
4	Supplying and fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50 HZ 12/24 V DC	No	8.00	515.00	Rupees Five Hundred Fifteen Only
5	Supplying of TPST with rewirable porcelain channels in SM encloser made out of 14 SWG powder coated point of approved colour 32 amps	No	8.00	4193.93	Rupees Four Thousand One Hundred Ninety Three and Ninety
6	Supplying and fixing miniature circuit breakers on existing MCB distribution board using necessary fixing materials and 'C' type curve indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 50-63 A SP	No	8.00	1102.00	Rupees One Thousand One Hundred Two Only
7	Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motar up to 20 HP capacities.	No	8.00	904.02	Rupees Nine Hundred Four and Two Paise Only
8	Supplying and fixing 20" x 20" x 2.5" polished wood board made of not less than 15mm thick plank on both the sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.	No	8.00	326.13	Rupees Three Hundred Twenty Six and Thirteen Paise Only
9	Fabricating supplying and mounting MS box made out 14 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clA with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete. le.,	Sq CM	287600.00	0.50	Fifty Paise Only
10	Supplying fixing and wiring heavy duty low voltage capacitors conforming to IS 2834 phase 400/440 volts grade, for power factor improvement of rotating machinery.	No	256.00	480.00	Rupees Four Hundred Eighty Only
11	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694:1990 & conforming to the attached GTP of group A. 4 sqmm	Mtr	120.00	63.00	Rupees Sixty Three Only

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12	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work 50 mm nominal dia Pipes	Mtr	200.00	721.00	Rupees Seven Hundred Twenty One Only
13	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. 63 amps	No	8.00	372.00	Rupees Three Hundred Seventy Two Only
14	Earth work excavation for pipeline trenches in all kinds of soils by mechanical means as per drawing and technical specifications, including setting out, construction of shoring, strutting, barricading, caution lights, bracing, using sight rails & bonding rods at every 100 mm wherever necessary as directed, removal of stumps and other deleterious matter, dressing of sides and levelling the bottom of trench to the extent required , utilising the available excavated earth locally for the work etc., and all other appurtenances complete in the following strata. All kinds of soils. Depth upto 1.50 m	Cum	309.60	288.20	Rupees Two Hundred Eighty Eight and Twenty Paise Only
15	Providing PVC ringtite pipes conforming to IS 4985:2000 with latestamendments and conveying to worksite, rolling and lowering intotrenches, laying true to line and level and perfect linking at joints, testingand commissioning, including loading unloading at both destinationsand cuts of pipes wherever necessary including jointing of PVC pipesand specials (excluding cost of specials) with jointing of approvedtype, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc. complete For:PVC pipes 63mm dia., 6 kg/sqcm & class 3	Mtr	710.00	161.00	Rupees One Hundred Sixty One Only
16	300 to 350 m	Mtr	192.00	868.00	Rupees Eight Hundred Sixty Eight Only
17	Supply and delivery at site wrought middle steel (galvanized) GI hexagonal nipple confirming to IS 1239-II, 1991 with latest amendments if any For 50 mm dia GI hexagonal nipple	No	8.00	213.00	Rupees Two Hundred Thirteen Only
18	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) 0 to 50 m	Mtr	400.00	370.00	Rupees Three Hundred Seventy Only
19	50 to 100 m	Mtr	400.00	464.00	Rupees Four Hundred Sixty Four Only
20	100 to 150 m	Mtr	400.00	493.00	Rupees Four Hundred Ninety Three Only
21	150 to 200 m	Mtr	400.00	572.00	Rupees Five Hundred Seventy Two Only
22	200 to 250 m	Mtr	400.00	671.00	Rupees Six Hundred Seventy One Only
23	250 to 300 m	Mtr	400.00	740.00	Rupees Seven Hundred Forty Only

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24	Providing PVC ringtite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc complete for PVC pipes 200mm dia., 6 kg/sqcm & class 3	Rmtr	288.00	1155.00	Rupees One Thousand One Hundred Fifty Five Only
25	Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a)Above 20 M and upto 30 M - 15%, b)Above 30 M - 30% (Measurement of overburden is restricted to the depth of casing pipe fixed excluding initial depth of 20M and projection above ground level). 2) A sum of Rs. 100/- is to be deducted for Dry Borewell towards yield test	Cum	8.00	5288.00	Rupees Five Thousand Two Hundred Eighty Eight Only
26	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.prices include Collar-Medium duty	Rmtr	240.00	1933.00	Rupees One Thousand Nine Hundred Thirty Three Only
27	Providing and fixing MS casing collars as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments	No	56.00	150.00	Rupees One Hundred Fifty Only
28	roviding and laying at site of work MS casing caps as per IS 1239 (part II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments including cost of material and labour charges for fixing, if any etc. complete with all lead and lifts and as directed by the Engineer in charge	No	8.00	164.00	Rupees One Hundred Sixty Four Only
29	Providing,supplying to work site, Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000;3Phase, SS Bowl & Impeller with Low volt Motor as per specifications,as per necessary ammendments and instructions of engineer incharge of work. Submersible Pump Sets : 15.00 HP - 120 LPM @ 253 m = 23 STG Outlet Dia	No	8.00	69344.00	Rupees Sixty Nine Thousand Three Hundred Forty Four Only
30	Supply and delivery at site wrought middle steel (galvanized) GI union confirming to IS 1239-II, 1991 with latest amendments if any For 50 mm dia	No	8.00	267.00	Rupees Two Hundred Sixty Seven Only

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31	Supply and delivery at site wrought middle steel (galvanized) GI elbow confirming to IS 1239-II, 1991 with latest amendments if any For 50 mm dia GI elbow	No	24.00	267.00	Rupees Two Hundred Sixty Seven Only
32	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments 50mm	No	8.00	1250.00	Rupees One Thousand Two Hundred Fifty Only
33	Supply and delivery of galvanized mild steel tubes of 6mtr standard length heavy duty (C Class) as per IS 1239 (Part-I) 1990 with latest amendments with ISI Mark (one end fitted with Heavy Duty collar and other end fitted with protective cover).G.I. Pipe 50mm 'C' Class	Each	400.00	3050.00	Rupees Three Thousand Fifty Only
34	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of upporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions of engineer incharge of work.	No	8.00	6500.00	Rupees Six Thousand Five Hundred Only
35	Providing, Laying and Fixing of GI pipes conforming to IS 1239:1990 with latest amendments complete with GI fittings (excluding the cost of fittings) with cuts and threads wherever necessary, including testing for water tightness, with all lead and commissioning. (contractor will make his own arrangements for procuring water for testing) For Light Duty GI pipe of 50mm dia	Mtr	96.00	442.00	Rupees Four Hundred Forty Two Only
36	Supply, installing,testing and commissioning COMMON control panel consisting of the following INCOMING:1 No set of Phase indicating lamps with SFU of suitable rating 1 No, Analog Ammeter, 1 No Analog Voltmeter 1ni with Phase selector switch, Isolating switch OUTGOING for Main Electrical Pump: 1 No. MCB 1 No. DOL of S/D Starter suitable for respective HP 1 No. Electrcal Protection Like single Phase preventor, under voltage over Volage, under current over current & dry run protection suitable for the pump described above 1 no Indoor type S-D- Star Delta Starter, 6 to 15 HP pumps	No	8.00	15900.00	Rupees Fifteen Thousand Nine Hundred Only
37	Providing and fixing suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps,bolts,nuts and washers etc. with necessary materials and labour tools and equipments as per instructions of engineer incharge of work.	Mtr	120.00	562.00	Rupees Five Hundred Sixty Two Only
38	Earthing: Providing and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia.	No	8.00	3750.00	Rupees Three Thousand Seven Hundred Fifty Only
39	Providing and laying in position Cement Concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite /trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant ISCodes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.M20	Cum	13.50	6955.30	Rupees Six Thousand Nine Hundred Fifty Five and Thirty Paise Only

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